Rec'd Nov 22
Ans Nov 29

Athens O Nov 19th 1862

Dr. Geo. Engelmann

Dear Sir

I to day send you by Express one Set of the plants we have collected in the Rocky Mountains &c this season. The Set is a common one just such as we have put up about 40 of except that it is fuller than the last 10 or 12 I only selected one set for Dr. Gray. Of larger & more perfect Specimens I intended to lay out for you more material of some genuses, Euphorbias &c but having an opportunity to send to Express office at Springfield I did not have time to look them up & add them to the Set in the box but if you lack material on any Species let me know & perhaps I can send more as have an overplus of many Species

I want your opinion on the quality of the Specimens throughout as your Set will be a Sample of the whole you can judge correctly of the whole Collection let me have an honest Opinion without reserve Compared with the Specimens of other Collectors Dr Gray is to fix upon the price of the Sets and if you deem them worth the price so fixed I hope & shall expect that you will assist in the ~~Sales~~

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Sales at favorable opportunities by recommending them to the notice of your Botanical friends at home & abroad & the labels are distributed with the plants from 534 to the the end 534 are distributed in parcels of 100 ea Overhauling you can find the proper label at the proper place the plant is numbered on the sheet of paper & lies on & the label to correspond with it When you examine them let me hear from you

Yours very respectfully

E Hall

Athens Menard Co.

Ill.

PS have just rec'd Dr Grays decision in the case of Dr Parry & ourselves it is satisfactory to us & I hope there will be further trouble now

I want to say a word of the grasses & [redacted] & Cyperacea for want of room we were obliged to dry them in masses & they consequently are not as they should be - yet much of their apparent imperfectness depends upon the state in which we find them in that dry, arid, grasshopper region - how do they compare with others collections? what decimal of 100?

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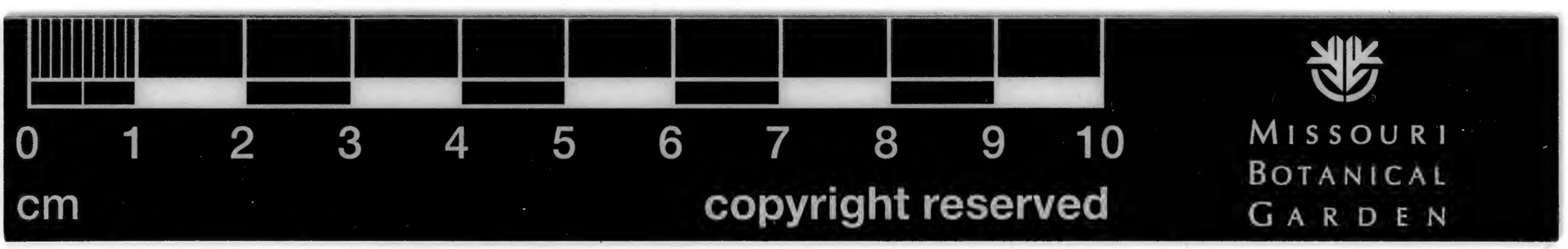
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Rec'd Aug 11th
Ans. Aug 10th 1863

Athens Ill. Dec 8th 1862

Dr Engelmann

Dear Sir - Your letter
in reply to mine of Nov 2d has been on
hand a few days - Your opinion of the Collection
is quite as favorable as I expected the
quality of Specimens would justify. They were
not made as I intended for first quality
Specimens. I have also rec'd from Dr
Gray his reply to Sample sent him the
figures the price at A&G and apparently has
a much less favorable opinion of them than
yourself in fact has criticised them
until I am almost ashamed to offer them
for Sale — Says part are ridiculous the
Conifera Amentacea &c perfectly valueless -
mere tops &c &c That they are distributed too
thinly purchasers want surplus flowers
fruits &c for dissection - I am feeling
rather badly over the severe overhauling
he has given me & my cherished



beauties have dwindled very much
in my own estimation since
the days it is much below Pansys of last
year — Nor below Doendlers & Wrights
& Lemoy all its defects & fear it
is quite unimportant. The Lot you
rec'd was doubtless just such as sent him
for inspection & I am somewhat at a
loss to understand how they were so
differently appreciated by Judges of
such things. Bad enough of this
I had bought Clarksons interest in
the Collection for which with the actual money
Cost of Collecting makes my investment
in them now nearly $700 but I have
plenty of Lots such as they are to more than
bring that amt if they can be sold at
the price fixed by Dr Gray — Dr Gray has
decided in the dificulty of Pansys & I suppose
he will now soon propose for an arrangement
of details when the Collections will be offered
Conjointly. If the Sales will offset my out-
lay I shall be satisfied & what little

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benefit you are disposed to give by recommending to your European friends the sets such as they are at the comparatively low price of $6 which may be an inducement to many to purchase who would not think of it at the full price of $10 I shall be grateful for all assistance in that way. Yet I am not willing or do not desire you to deceive any one by recommending them if they are unworthy in your estimation

There is no arrangement yet made as I understand about naming & publishing perhaps Dr Gray will do it but he has not yet so advised me certainly of doing the latter

If you have time & opportunity to do so I should be glad if you would name some of the families that you are familiar with in particular the Polygoneæ Rumex Veratra I believe are special studies with you. besides others undoubt If I had time I would give you localities &c but if you find with them species that are new I will give all the inform

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formation of them I can & sometime may give you a full account of localities of the pinaple Cacti.

I have no copy of your Synopsis of the Genus Cuscuta Shall be pleased to get it

Upon reaching home we planted out our Cacti & I fear we have lost the most of them by freezing. a continued season of dry cold weather (they having no establishment for support) I think has been the cause I trust a part of them however are not thus destroyed

I do not know what I shall do with them unless I grow them or perhaps Sell or give them away the latter most likely - by the way I believe I did not tell you that I had a large variety of Seeds from the mountains I think Some of them will prove valuable addition to the cultivated ornamentals & perhaps Some of the grasses in field culture I hope the Retreat will soon be ready for purchasers - in a fortnight perhaps

Respectfully &c E. Hall

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Rec Febr 19th
Ans March 1st

499 Rumex Conglomeratus
Thanks not.

Athens Ill. Feb 17th 1863

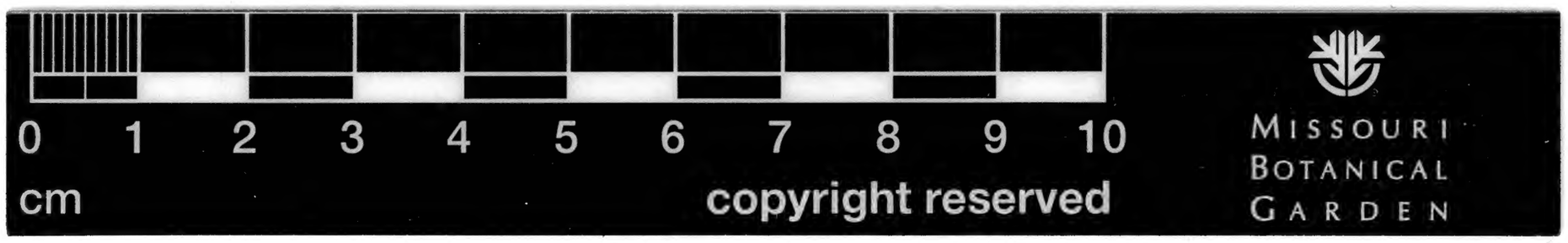
Dr Engelman

Dear Sir Yours of 10th is rec'd
also Synopsis of Cuscuta. Draccina Grasses &
Cactaceæ for all of which please accept thanks
Dr Gray is now through naming with some omissions
& wish to call your attention to a few things
40. Erigeron Canescens (incisum Lag. & Ser.) Can hardly be that. 41 & 42 he calls drabæ
Nemoralis one I think is not 41 must be different (yes) & 71876. Stellaria
longipes one is not that. See the genuine late branched (5-5 styles) Inflorescence
in one. (72. Stellaria borealis) 77 Arenaria Groenlandica the short
Species the long one is A. biflora (if you have it) (yes not)
121 & 119 (Cell. A) he says are both Asthagalus debilis which of course can
not be. 218 var. of 216. Can that be (yes) 201 230 prostrate (why not? ought)
Something else. 236 no runners can't be E. bellidifolium (I am sure not)
250 & 251 Solidagos look different to me. 293 Erigeron Canadensis
a vastly abundant Species on the Platte & in South Park. Strange
if had not been got before. 539 have you a long & short Specimens?
there are two here. 532 Gray did not name (Aster Ericoides) what is it?
575 Quercus. Douglasii var. Gray says ask Engelman. 573 is (E. Fendleri) perennial and
prostrate 496 & 498 Rumex Salicifolia how can both be the same
Glands absent & other differences. 492 Polygonum tenue. with the pendent
fr ought to be something else. I get the true P. tenue here & also
in the mts. have sent Gray Specimens. 483 with its sessile leaves
& hairy. Looks as if it ought to be different from Ore Baptisia Specimens
480 Accidentally Omitted from Gray Set — What is it?
Asa Nuttallii —



I. for Those named Hall's letter sheet 1st

473 the large pale flowered Spec is distributed through Condensed & Gentian counties
I think find it in Set 16 that I am now looking at
got it in the South Park when it was in great plenty at
one Station only Considered it when Collected as one of the
forms of this rather Variable Spec's I now enclose you
bits for direction of Several forms by which you will see
that the Size of the fls varies much as well as general habit
the flowers retain their original Color. or nearly so — But as what
think you. Gray calls 468 469 & 470? S. affinis (470? he marks?)
the last is your S Parryii that you showed me the cut of
& of Course is a good Spec's. but Jour account of it in
Nat Parryii is not entirely correct) it does not grow in tufts
but Singly always or rarely 2. & generally but one flowered but
3 in robust Specimens. A cannot by any possibility go with
either of the other. 468 & 469 I send you good heads of now to
show you they cannot be the Same (See Calyx lobes &c. &c.)
Gray did not name the Lilia's nor Phloxes. Said his herbarium of
there was with Torrey. Will you send me the names if convenient
448 & 449 he says is Polemonium Caeruleum. They are too different
in habit, besides there are Some good Characteristic differences
See the long exsert Stigmas of 449 & Sub 3 angled pods. 449 is Inclining
in Cold alpine & Subalpine Swamps, 448. in low mt alone. Steam
never in Swamps. 433 the little Spreading Specimen is Erichrium
Californicum I did not see the difference though Gray says to to Calls
different the other Echinospermum Redowskii. 411 & 412 only Variety
difference — but no botanist Seeing them plants growing would ever
make one Species of them 412 exclusively in Swamps — the
other not. 405 I think Gray makes a Species out of an



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A Typical form of this (See PCA Dayton & M.S.) 385. 386 & 390 = Rent-
stemon Acuminatus What I think of this whole Sale
Condensation. is 386 at any rate a very good & Species. I wish
Gray could See these plants growing together 386 fl. early before
385 by Several weeks & then So very different habit
373 A high alpine Plantago that gray Says is var of 372. he could
not made a greater mistake) They are different Specifically
370 Kalmia glauca var. 690 Cystopteris fragilis mixed with
Woodsia = 394 Day N.S.H. 580 what is it? Pond Lubalpina Upolepis vulgaris frondosa
574 Parasite. what? 561. 562 & 563. he makes all Juncus arcticus
which is impossible. 632 Muhlenbergia Gracilis & 642 a variety
of it which doubtful. 632 exclusively on Sand hills. 642 dry ground fls in July
692 Sept. 634 Org 20 spec Canadensis. dont look like it. (as I have it)
640 Bryzopyrum Spicatum Nit. or Smithii. 641 Sporobolus vaginiflorus
643 a variety of it 641? which cant be 643 annual 641 perennial. 669 Poa
andina & Lanceas 677. but they look too different. 635. 646. 664 & 665 he
Says are new to him. 685 looks like a Silky long awned var. of Muhlen-
bergia glomerata I so thought it when collected. he has sent the
doubtful grasses to Prof Thurber. he does not name others
as 644. 647. 654. 659. 667. 673. 680. He has sent the Carices to Dr
Boott I have no names The entire Collection of Mosses is with
Lesquereux 687 Aspidium Felix-mas. Mr Eaton Says new to America
by the Way have you got in your Set under 256 a Specimen with glandular
pubescence & Sharper pointed Scales a few of them have been
distributed unwittingly with Asplosplenium Bigmaeum Gray Says is
a new Sp. & he proposes to call it A. Hallii. about 12 Sets of
the Collection are Sold or engaged I believe. I hope we will be
able to double this number at least. I have bought

Dr Parry's interest the whole collection is now under my control by the way Dr Parry only got about 15 species that we did not I should have thought he ought to have done better being familiar with the locality
I hope to save some of the cactaceæ of the Mamillaria Viviparia they will all go. I wish some time when you have leisure you would give me a little information of raising them from seed. I am arranging to have seeds of western Utah & New mexico plants sent to me by this Rocky Mt exploring expedition now fitting out in Nebraska & want to be able to cultivate successfully if possible. I do not expect to collect plants again for sale. My health will not allow which I much regret for it is an exceedingly interesting business. You need not send me Gays manuscript I have kept a copy. Perhaps Prof Short would like to see it if he has got as far as I sent him 3 weeks or more since but I have not heard from him
If you see obvious errors in Gays names to which I have called your attention perhaps you had better suggest a correction before the catalogue goes to press

Yours very truly

Elihu Hall

Rec'd March 11th

Dr Torrey
Dr Gray
Prof Sargent
Mr Canby
Dr Engelmann

Athens Ga.

March 9 1863

Dear Sir

Yours of 11th inst. rec'd. & in your last you disposed of the Section: well. About the 2 sorts Mr Durand & Dr Gray have both written for it for Mr Durand's I sent as I had to Mr Durand & he writes me that is already on the way to Europe. Durand thinks it a new sp. I distributed Carex last year I am now sure I called it C. Engelmanii more from the circumstance of its being found here in the west than from agreeing with the description of that plant in Torr. manual — I get it here in my own meadow where water only stands in the Spring season dig them out of dry ground in July or Aug. before the leaves die which they do here but Durand says not on the Delaware: the same plant grows however in an adjacent pond

in deep water where the leaves
are much longer I can not get the
knobs now. Couldn't find them
the 'Swiss riad Frenchman' as Dr Gray
Calls him must wait for them till fall
when I will get them & send to W D
& and as he orders. I will also get
it with proper State for the herbarium
plentiful. & you shall have as much
as you like. don't let me forget this
'77. the Long form Arenaria biflora. I must send you
119 & 121 Gray in letter called 121 A. Alexilis also. I
Called his attention to mistake. 141. is A pauciflora
293 is for more common than 292. the latter
only seen at foot mts 293 Sub alpine & very abun
dant & variable as to size of fls. 539 The short
one is S. geniculatae. I must send you one some-
time with bare & leaves. 533 now. Dr Gray tried
to show me Abies Engelmannii but I could
not see it. I wish you would give me
the distinguishing characters. I have some good
Specimens of Abies grandis: I must send
you one. black smooth cones. Scales entire

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480 are for me but about A. Nuttalliana
it don't look at all like the Specimen
I have of that sp from N. Dak

479 I agree with you all one Species
but A Polygonum tenue has me at fathom
how about that I took it for something else

493 Yes I see for that

422 I consider different from O. Ky Nagasaki
Specifically enough. Ky Nagasaki grows
on Athens. 496 & 498 well. I say with the
the circumstances of glands are inconstant

499 Sorry I have not a single Specimen for
for that Species run out before it the
number of your list

Have you under 204 Heuchera brittoa
a form with pellucum hyaline. Dr Gray
now decides to call it H. Hallii - wish it
had! of Jones 654 he says it puzzles
Thunder he must not did him perhaps
a new Genus do you identify it
the Nebraska collection I took is not
a humbug I am in the way of subscription
already. Mr Thompson seems a clever fellow

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brown man & with energy enough
to put it through if they get a
good Collector of Plants. If you
know any thing Special about it I
wish you would post me —
I have sold about 15 Cts - the
prospect looks dull for more
now — the Sales have not yet
paid the expenses of Collecting
I shall have plenty of Rocky Mt
plants to turn some way, not
pecuniarily I perhaps I shall
want your assistance in arranging
for exchanging them for European
or other Country Specimens
but I will not go at this
just now I hope to get orders
from Europe for Several Sets
when they are known there
respectfully
E. Hall

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Rec'd May 21st
Ans'd May 25

Athens Ill. May 19th 1865

Dr Engelmann

Dear Sir

Just in receipt of transactions of St Louis Academy of Sciences with requests or for which favor please accept thanks

I have yet only found time to look it over but shall be greatly interested in its careful perusal

I am at work now & have nearly let botany have the go by for a little time getting materials & building a house but I get steal a little time to collect some desirable things. - will not forget Isoetes when the time comes



have plenty of Seeds to get
winsold So applicant
will be disappointed for
a year to come for want
of Supply Do you
Study Ats Charas? if you
do I want to Send you a
few Species for identification
when I make up a parcel
for you as expect to do
next winter

Yours Truly

E. Hall

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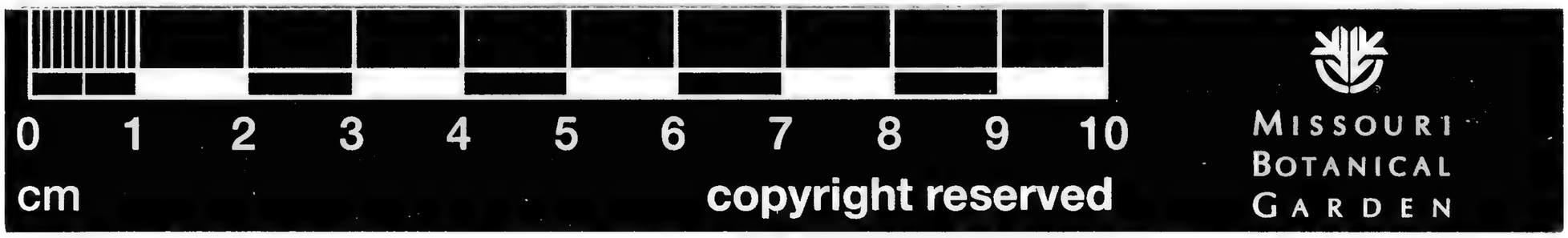
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E. Hall's letter rec'd Aug 24th 1864

Glad to hear Dr Parry is safe in the Mountains Does he collect a good Deal & contracted with him for at $15 per 100 hope he succeeds I read of Sunshine on the plain, & more ever since

Yours E. Hall

In a few days Dr Parry & I expect to make a botanical tour in Maroon Co the Sand ponds & hills where I expect to find some rare plants I want to ask you about some St Louis plants but have not time now I will get some attended to Solidago I want



My Isoetes pond is dry months ago & so all the Isoetes was dead early in June & I could not find time to remove any to permanent water as there is none suitable near me. The pond does sometimes hold water through & then we are sure to see about it & I think I can get you some roots this fall will try — I set you 2 Lobelias one time this same form. a hairy terrestrial

Enclosed you have the names of all the Callitriche I have & all of the Poaty[illegible] plant that I did not send Dr Gray I had but little of it. & looked to me different from the one I sent you. There are other terrestrial forms here but I have collected none of them. I supposed all I find here were Verna but I have no glass to see. There smaller things over

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Rec'd Sept 9th
Ans'd Oct 6th

Athens Ill Sept 8th 1868

Dear Doctor.

Your favor of
25th ult was duly received
& about the same time one
also from Mr Durand on
that same Exotic question
and I have just put upon
him & the mad Frenchman
a package of the Specimens &
the rhizomas or roots that are
to be grown in France by the
Exoter era of Frenchman
I have kept a dozen or so for
Jon & will send you the roots
also but the living plants
have long since ceased to be
the last green disappeared
from the tops full two months
ago. I dug part of the rhizomes
6 weeks or more since & a part

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recently that I can now only find by the remains of the tops in the vicinity & the poles ~~left~~ in the soil by the decaying out of the spores & base of the leaves the localities are now as dry as a brick & have been 2 months & partly much longer — So far as I have observed the base of the leaves when mature are all black — but I have dug more from out of the water as the ponds where I get them invariably dry up before they mature but the spores are perfect . I am sure we have but one species here with soft & placid pale green semi transparent somewhat knotted leaves flatish & of variable height from 4' to 2 feet or even more owing to the depth of

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the water my Cacti new
All died except one Specis
the Cereus one with most
prickles (the (name I have forgotten
& you got a Specimen of it) of
them I have some 2 Doz Specimens
I could Spare you a Dozen or
So they bloomed & are now
growing some & I suppose are
in a reasonable good State
I do not know their worth
perhaps not a piece but I
will let you have what I
can Spare in the way of exch-
ange Some time from the
increase of yours you can
Spare me Something that
I will want) it will not
be possible for me to furnish
you the Specis of the Set you
have not got your Set was
now 18 I believe which to that
now they fell off to about 20 Species

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we put up 44 sets — the cart
takes off about 120 sheets
but up to 40 less than 100
the unsold sets are now
my own property having buy
the intrest of Harbour &
Dr Parry over 200 of which
are left for sale at the
low price of $6 per 100
my intention is to send you
a parcel this winter in which
I hope to be able to put a few
things that will be desirable
the Grasses & bulbs or roots if
you desire. & what cacti I
can spare are subject to your
order I can send you Joints
of the Opuntias if you wish
O. Missouriensis O. fragilis
& O. Rafinesquii
My eyes have been ailing for
2 months & am now nearly blind
Lincoln & Hall

Rec'd Sept 21st
Ans — 27th

@Athens Ill. Sept 18th 1862

Dr Engelman

Dear Sir

Yours of 12th rec'd
Our Callitriche Asa Grayii
took out for retaliation
think of Johny Hookeri
Georgia Engelmanni is
in Store for you or what
means the same thing — but I
do not know the law on these
things — nor how much
Symphony may be sacrificed
to the votaries of Science
but when there is nothing in a
name — no matter of course
But I am persuaded there may be
much in the names of many things
An account of Dr Vasey being
delayed by Sickness in this neig

Lockwood & family he did not c
reach here in time to make
over intended trip, to the Sand
hills & I get no Euphorbia
Jejerii. I have collected
it out there however before. I
& I think it quite different from E
petaloidea I raised one plant
of it a few years ago but
it does poorly on common soil
I have no seed now — I enclose
you E hexagona. E. petaloidea
& E dictyospoma. hexagona
is coming to be too much at home
in my grounds coming up all
the season & behaving very
much as if it should become
a troublesome weed. petaloidea
Come sparingly & I do not believe
it will naturalize here
dictyospoma failed entirely to
Come from self sown seed though

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not abeundance matured last
year. I send of last years crop
& I did not succeed with
& montana nor & Fendleri
t me find & Jejeni also on
the plains in company with
petaloidea. Jejeni Spreads
flat on the ground. petaloidea
only decumbent, I set
here & obtusata
I have near 200 of the Rocky
M & plains plants growing. plenty
of Munroa Squarrosa but
one only one plant of Buchloe
dactyloides that has not set
shown fls or fr Creeping on
the ground now about ½ a foot
oidea long & now growing rapidly
ieve I suppose it will do nothing
without a partner - I wish I
Could get more seed - I have
h also 2 Runners from the NBs

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R longipolius & another
that Dr Gray says is the
same but it is not

I have good Specimens &
will save one of each for
you to be sent Some time
I have also A cleistáS Speci
ens and another that may
be A limipolia. neither
have yet fruited
Could you get me their
fer After Anomalus
Solidago rupestris. S sphorii
S Drummondii Rumex
Engelmanii & cb & lay them
up till I have a chance
to get them
I fear May will have
a hard road to travel this
fall. in haste
truly yours
E Hall

Ans 2 Dec 5
Ans — 6th

Athens Ill. Dec 3rd 1863

Dr G Engelman

Dear Sir

I believe I have neglected replying to your last letter to me written some time since I have been so much engaged with business this last Summer that I have been obliged to neglect botany & Corresponding to some extent. I have been looking for your last but do not find it it must have been mislaid & I am unable to reply in detail. any queries renewed will be cheerfully answered as now I expect to have more time for Corresponding & studying plants I have lately received from Mr Lesley of

of Delaware a fine Specimen
of Yucca recurva Ives & find
it to be very different from
mine & am getting interested
in the Genus & shall dig deep
er in it nex Season watch
more closely it growth habit
Could you supply me with a
Specimen of Y. Engelmanni
I have a Dozen or so of Y. me
lanopoda for you & next Jear
will get it in large supply
in its extreme State of Develo
pment &c I have sent A thorp
Mr Durand roots in
quantity to the Frenchman
who is Crazy over this family
& he will doubtless be growing
it next Jear for himself
Some time this winter I intend
to send you a parcel of
miscellaneous Plants & the Yucca
in question. I have examind

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my Cactus I find them in
a bad state the Species mostly alike
is I think Echinocactus Simpsonii
from what you say of it. but all
are now in such a bad state
that I fear it would not be worth
the while to bother with them I
have taken off a part of them &
shall keep them in a cold room
as you suggest.) & give them
a dryer location another year
the roots seem to be mostly rotted
away & the ball its self decaying
yet they have grown a little in
the center & look as if they had
life do you study grafting
My roots also sets are in a very
unsatisfactory state of determination
especially the Rats I would like to
furnish some one a set who is
competent to analyze them
correctly. this will include several
distinct species varieties not in the

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regular Lot 2 Mr Shinkers
report) is very [redacted]
& he has not reported on
the extra or Separate Collection
at all there are Some 10 or 12
Pairs or Var that are indeed
fine 22leg Set Eyppicent
Original inateneal would
enable most anyone to
place them properly
In haste
Reg
E Hall

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Rec'd Dec 15th
Ans Dec 16

Athens Ill. Dec 1863

Dear Engelmann

Yours received & the
Stamps too bad.
Here is the Specimen
Damn it you Say all
-Crushed to powder
Cant help it am just
Starting to Springfield for
Absence for friend
have no time to do it up
right

but will make
it right again Sometime
I appreciate your Zoeta
madness have a touch
of it anyhelp

Truly

E. Hall

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Rec'd Feb 20
Ans — 21

Athens Ill. Feb 19th 1864

Dr Engelmann

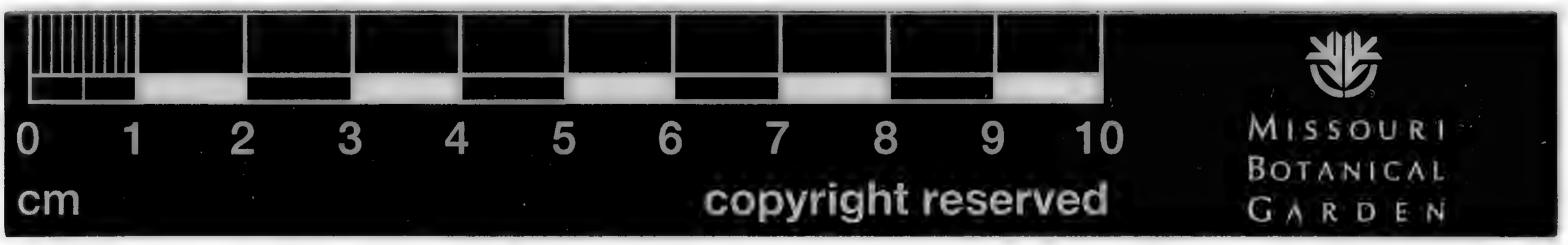
Dear Sir

I to day send you by express one bundle of pets containing a few things that may be of some interest to you & first parcel of Dracontes melanopoda the Chara please report to me by the cros. & help all you can where it may appear wanted

Do you know of any proposed collections for this year & the parties if so? is Darby going out again?

Dr Vasey has sent me an Isoetes that Gray says probably the same as Dalli but it lacks the black foot) & true enough it does

besides the bases of the leaves
are much narrower I suspect
the upshot of the Proctor question
will be that like Sagittaria va-
-riabilis nearly every pond will
have a variety of its own &
that will be all there is of it
In haste Yours
Thos E. Hall.


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Rec'd March 1st

Hall Peter

Opuntia Missouriensis
var rutila, Fenton q. Cook

Athens Ill. Feb 29th 1864

Dr Engelman

Dear Sir

Your favor of 21st
inst. was duly rec'd the Opuntia
matter seems to be pressing & I
will once tell you all I know of it
I have another flr or two some
where in my undistributed sets
& I have been looking for them but
have failed to find them at this
writing they are however taken
just as the one sent you Cut off at
the apex of the ovary to facilitate
pressing flat. You know intended for
var. of color only for the question of
difference from O Missouriensis did
not occur to me & I take the respon-
sibility of saying now that it is exac-
tly O Missouriensis in everything but
color of fls I met with but one

plant of it. A large cluster growing right amongst the Yellow fol variety within a yard or so of it at least and can give you the exact locality — & with the aid of Dr Parry can just you in the way of getting Specimens next summer from the identical plant. It grew about 15 or 20 yards North east of the famous Soda Springs on the Fountain Qua Bowlia 2 1/2 miles from Colorado City (from the Spring used principally for drinking on the north side of the Creek) this locates the plant within a rod at furthest .. Now there is a man named Beach I believe who is apparently somewhat enterprising in this way who is acquainted with Dr Parry & who lives or did live in Colorado City who you can get to find the plant for you & send

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Now what you want of it
It was in its blooming Stage the 4th
of July when we went there but
yes like the other [redacted] sion
I have not seen the long Leaved O
you refer to I know but 3 natives
O. Rafinesquii in Mason Co Ill. O.
fragilis & O Missouriensis on the plains
the latter extending in to the Counties
& even higher in the neighborhood
of Pikes peak Let Dr Parry
tell you who to Correspond with
on the Subject I may be mistaken
in the name I will enclose you
one of Dr Vasey's Leaves I can get
more from him Some time
The best part of my Leaves pond is
now fenced in to a Sheep pasture
I fear I shall never get more
fine Specimens very long. I do
not believe my Leaves live longer than
mid Summer Dry but June even in
water but we shall See the bares
are invariably black.

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are invariably black
Thanks for the Dipera proliphera
it is exactly my Anaphalum
Salustre? I had not examined
its Generic Characters it looked
so very like a Snaphalum I
could think of nothing else
I do cultivate or rather grow
plants & like them very much
I cultivate as little as possible
so as to alter them as little as
may be. I have about 100 Spe-
from the Rocky Mt Seeds now
growing & am especly fine this
this Summer. with I had seed of the other
form of Euphorbia pretaloida
with my health would admit
of an other trip South went
but I dare not think of such a
thing now hope to be able
Some time to make another
Collection in the Lower Alts —
Respectfully E Hall.

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Rec'd Octo 28 14

Athens Ill. Oct 27th 1864

Dear Doctor

Your favor of 24th inst
duly rec'd thanks for the
Euphorbia Seed i.e. & Glyptosperma
& Serpens H.B.K. grows here in my own
field. the other will be entirely new
to me & I shall try hard to raise it
I have but 2 pkts of Asclepias Speci-
-osa. neither have yet come in to fl
though 2 years old - I hope they will
perfect for next year it is only
about equally shown with A.
Cornuti & A. Sullivantii is
quite common here. plenty grow-
-ing in my own meadow
Shall be glad to get the Seeds of
Buchloe next Spring & will
not forget to remind you
of it at the proper time.
I have some 20 Species of

grasses in cultivation from
western seed Several puzzling
Poa's - Poa alpina a very pretty
species
I send you to day by mail
bulbs of Ipomoea Melanopuda
they have grown a little
but not to injure them
I hope I was not
aware they started so early
in the fall
Dr Gray writes me that he
has heard from Dr Parry
he is coming home - did
not get to the top of Pikes
Peak I hope to get a set
of his new things at an
early day

I find the Shrews or mice
are fond of the bulbs of Ipomoea
an on account of their ravages
it was with difficulty I

obtained the fruit & send you
I am partial to the Aster
Could you send me seeds
sometime of A. anomalus
& oblongifolius

Thanks

E. Hall

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Rec'd Dec 21st
Ans Dec 25

Athens 2d June 1865

Dr Bunge

Dear Sir

Your favour of 24th Feby is
indeed very nice — much obliged
for habitat is very Strange
I just cast & send you by mail
to day the Carex & Viburnum
I have in fruit my herbarium is
far from rich & can't supply you
with much I also put in
some small Insects just Collected.
All the Insects here now is only Carabi
the water of the ponds notwithstan
ding a few light rains lately has
continued to recede rapidly. Insects
on the driest ground is now dying
& the mice are already engaged in
digging out of the bulbs for food Euphorbia
there are apparently well formed
& I don't see why not mature the

plants the water has recently left are now rapidly forming bases & will no doubt perfect Spores - before they are entirely dead at top

All the localities I know of are under water in Spring an Inch or more but some from the nature of the ground leave the water very shallow. as a dead furrow in my meadow left after sowing the seed was full of Isoetes but none on the level Smooth harrowed ground around the little water standing for a time in the furrow Exited it but not the ground around that was not under water at any time Euphorbia Ipecacuanhoides I think wants to sown in the fall as it comes up freely from Self Sown Seed also E hebaopoa E dictyosperma is tenderer & does not Self Sow I will Send you more Seed of each this fall. I have got up 4 plants of your

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& Glyptozpenma . if you did
not make mistake in labeling proper
You sent also at same time & hermiaria
des which I did not know as it grows here
& what I have now ch for the former
looks to me in its young state just
like hermiaria & spreads flat on the
ground . is it genuine?

Now My Buffalo grass did not mature seed
1. The growth of Eroeter as I have observed
is early Starting with the first rushes
that appear in the ponds at first all
under water where the water is
shallow the leaves grow shorter 4
to 10 inches . when deeper 10 to 18
when they reach the surface or at
least & when the water falls from
them the long leaved specimens
drop them leaves on the water &
float them till they they are kept
by the receding water prostrate on the
bottom under supplied by Eroeter
grasses with which they grow

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the leaves shoot above it more
or less in proportion to its depths
in the deepest water they often do
not reach the surface until it falls
when they become exposed
in shallow they of course shoot
above it at once—
the above is all I can say on Dracæna
at present but I will try &
get some more Specimens
in a week or two.
but I am very busy) with my
Sweet Potatoe Crop now
I have Still one old plant of Manillana
viridiflora & hope to raise others & Enough
of Opuntia Monvillei fragilis &
Peteresiopsis; any others would
be very desirable— at any time
When you have more than you want
of them—
Ever yours
E Hall

Rec'd July 11th
Ans'd Aug 13

Athens Ill July 10th 1865

Dear Engelmann

Dear Sir

Yours of June 25th rec'd
I have been out again after the Quaeles
All dead entirely - have dug a quantity of
the roots to send to E. Durand for
Durieux of Brandon France - If you
want any Can send you some — will
put in a few - may be will not dig
too much without packing - The
young plants do not come to a Spore bearing
age the first year or not So to any extent
I put in some pearly bulbs they are very
small - every thing is dry here - rain
much needed - Ponds all dry Creeks
I have got one Stock of Allium Canadense
that has 4 Scapes bearing bulbels it
probably has 4 bulbs now - next Spring
or this fall will See & if So will
divide with you - It is quite a

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a giant in cultivation being 2½
feet high with large nodding umbels
I have also Allium Stellatum
but A reticulatum I have not
if you can spare me a bulb it
will gratefully rec'd & prop'ly
appreciated. I have dried Specimen
from the plains where it is very abund'
& shows at some localities with its
purple & very fragrant fls. Dr Gray
calls it A angulosum one var.
There is another very large Allium growing
in the northern Counties of Missouri in
Swamps appearing as if having Spread from
a Center 2 feet or more high, in the
Prairies quite Showy in fl I saw it frequ
ently in 1876 but did not get bulbs.
Should much like to have it.
Euphorbia glyptosperma is right the
plants now show good characters. Should
like to know all about it now - native
habitat author &c
I have not succeeded as well as I hoped

to do with the Actæ & Solidagos you sent
but one Aster & One of one of the Solidagos
are now living & give them much
attention & care — but our season has
been awfully dry & hot perhaps in
Spring or fall Some time you will
be at the Lovers again & will have
the goodness to let me try again
The fr of Viburnum rudum — was
detached from Specimen rec'd from
Mr Canby perhaps he was mistaken
& I now so think after comparing
with Lantanoides (the Southern
All Specimens of V prunifolium & V lentago
Dr Gray Sr called it — A has
much narrower & more pointed leaves
than I have seen for that Species
& what we have heretofore called V
prunifolium must hereafter be
V lentago. the only Species in this region
of what I call Quercus aquifolia
is not So what is it — hardly to panic
ulata. if So very variable

Do you grow Engelmannia
pinnatifida? I do — & do
blooming since April (from pots)
Still continues one Specimen
survived the winter out doors &
has been several weeks in bloom
Send you from Thompson England

Ever yours

P. Hall

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Rec'd Aug 29 19
Ans Sept 2 "

Athens Ill Aug 27/96

Your note 23 is at hand ? I have just put up all my Juncii except some European material scattered around that I can't get my hand on. & which you probably don't much want & have no doubt and send by mail to day. Juncus ensifolius differs so far as I could see in the growing state which does not so well appear in dried Specimens in its soft glaucid teretic Culms. whilst the J. Phaideus has flat Culms & more Scattered Panicle Generally. They may run to Gether But the 3 Specimens I put in the Set, that Dr Gray Calls all 3 arcticus I still think notwithstanding are all good Species. You will find some errors in the naming of my Specimens perhaps may: I have not seen the Genus

but I still study Jet-
Name Items all correctly including the California Specimen & return some time - in no hurry for them. I can send you but little additional Rly M. material having sent all nearly I had to M. S. Bebb of Washington City last winter who was then engaged on the Genus & from him if he will spare the material you could no doubt get sufficient to clear up doubts & he probably will at any rate loan it to me writes me that he has quit it for the present having been greatly bereaved by the loss by his wife he seems to have lost his usual love for the Science Juncus Tenuis is very variable. I hope you will separate & Characterize some of the vars. I could not find all for you. I have been puzzled with it. former years

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You ask in a former letter about
Isoetes now — yes it has been
submerged since it died for awhile
but at at is very quiet it will start
a little later in the fall as usually
does — as not a fiber has started from
the root — Thanks for the Allium
bulbs I will send in the fall
Silphium & Allium Cernuum
Asclepias & Lilium & any others they I
have you want — I have a few
heads of bulbs only of the Allium in rather
No I forgot to put in the bundle of Sen
Ci as ever I have sent it but it would
show little. The species is remarkable
for being very showy with it from growing
in circular patches from a few feet to
several yards in diameter in the
prairies & dries with Phlox pilosa &
Viadesecantia virginica in floral attrac
tions yet it is scarce only plenty in
its localities perhaps you would
meet 3 of them in a days travel

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in the northern Counties of Mo
I suspect it is some large form
of the Species you send me —
Yes I want Froelichia gracilis — I am
planting every thing I can get — it will
be company for my Froelicha Floridana
& I also want that Texas Solanum
that has laid so long in the ground
to grow & compare with my S. rostratum
that does finely here — do you want
seed? In this year also I had the
misfortune to destroy with the hoe
a single plant of Euphorbia
Lathyrus that come up whose seed
was planted at least ten years
since & whereno plant has ever
produced seed — & I have reason to
believe the longevity of Argemone Mexicana
is also very long in the Ground
My Buffalo grass is rampant now & is producing a new
crop of fls & what is remarkable of both kinds 2
staminate spikes have appeared — one from the same stool
with pistillate — so it seems is not entirely Dioecious
This question seems interesting — Ever
E Hall

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Rec'd OCT 31st

Alton Ill. Oct 30/1861

Dear Engelmann—

Yours of 25th at hand
with Seeds of Juncus gracilis and
also Stipa roots & and most of
all Nymphaea tuberosa— many
thanks — I shall try hard to grow them
all — though they come rather dry to live
I fear in part — but I have a plot of
Aster Anomalus now in bloom
it is very distinct & fine. I or Solidago
I forget (or rather lost the name) — I find
the same here. I mistook it for a Soft
pubescent form of S. altissima
And also to my Great pleasure I find
this fall I have one small plot of Callitriche
Austri— — Some feet from where I planted the
remains of what you sent me — that
must have come from Seed
I also have just heard from Dr. [illegible]
notice that he would visit me

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but this letter has been so long
on the road that I fear he has left
Springfield before he could get my reply
if he is in St Louis when this
reaches you please say to him
that I shall be very glad to see
him. & hope he will return by
this way — I shall be glad to
welcome him & show him round
and every thing of interest
Allium Canadense has been taking
a ramp part & 2nd growth & I have
been waiting for it to get quiet before
I took it up to divide with you
Any thing that you want that I
have I dont hesitate to ask for
it will be cheerfully given
I have a 100 or so western plants
living — Astr ainethystinus. Hyperi cum
Sarothri. Artemisia frigida — Pentstemons
Erigoneums &c &c
Filling fast Saturday night
hope it will kill the ague

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two — we are all sick up here —
I am just recovering from the 2nd
attack
no time now to look at the
Specimens will look them over
& tell you — Soon —
Am Also most sending this
to the office 2 miles off &
I must not stop it to look them
over — for I hope to get word
to Pary before he leaves

Yr Faithfully

E Hall

	252	85
	45	
	6	
E.	303	75

Lire	114	50
Dom	2	15
	116.	65

	468	70
	339	25
	123	45
	116	65
	6.	80
	18	

	463	70
	346	75
	116	95

Nov. 1 Lire 20.5

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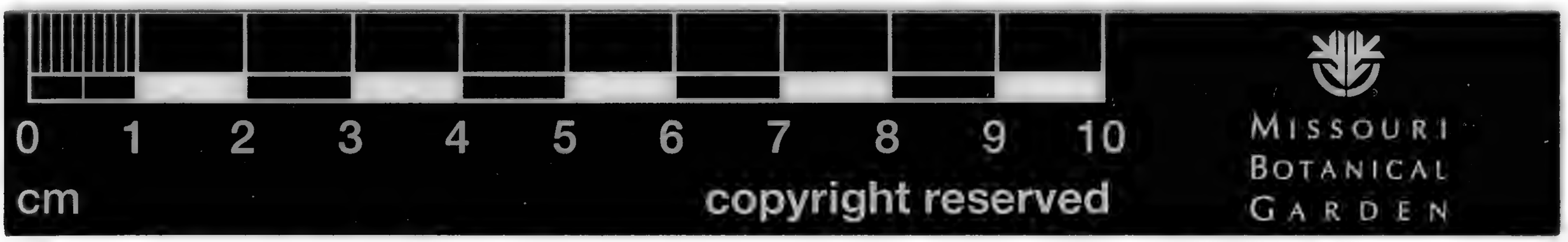
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Rec'd Nov 18th
Ans same day

Denver Colo. Nov. 16th 1865

Dear Engelmann

Yours of Nov 10th is at hand
Yes my collection is no doubt Drummondi
and South Tubercent leaved. Was Parry
at Springfield Ills? — Have no
Woody Artemisia yet
Purpurea — A Drummondi in
Can't find
any thing with 204 to represent Vaseyi
Only the 2 forms of Lewisii. have very
little of the Green leaved Form in
exchange for the Glaucous leaved Tufted Calyx
form. all come from the mountains
the Green leaved from Icy cold pools
on the Platte high up in the mountains
I collected it for a distinct Spe if mature
which I believe it was not. could get
but a little of it. the striped scaled
I think come from the South Park but
Im not quite sure of this



the Striped Sedges is remarkable
yet it must be seen — There are
not less than 5 forms of it here
that need thorough trying as varieties
the species is very rare in cult
will get Jesse next season
in Complete Specimens — protect
I will defer sending you any
living plants Until Spring
& then I will send an Express
package including mine, & if
Office has you — Thanking Botanical
Gardens. & now what about That
— I saw recently in a Cincinnati paper an
account of an individual enterprise
in that way. A Mr Shaw I believe
who had brought at great expense
many thousands of trees & plants of
the world together for the pleasure
& enjoyment of the Citizens of St Louis
who freely opened it 2 days in a week
to the public. is this the Garden you
allude to? — My Albicaus Cornucopiae
is still green. & I fear doubtful

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If it will be fitten to remove at
all this hall or shein if it [illegible]
shade thing and I'll put them in
[illegible] I enclose you some seeds for the present
to the next here thing I can do for
[illegible] you.

You said in a former letter about
Bolanders flat leaved brown seeded
frenus. the sheaths are stipulated
[illegible] membranaceous just as my Bk Mt
ao & Diphasiums. and Bolanders plants
[illegible] are ever way much larger. and one
that you call & Diphasiums. very peculiar
[illegible] has a much more scattered
[illegible] branches — which you had retained
[illegible] them till all had been correctly
determined and named
Bolanders Effusus is also a remarkable
[illegible] variety — its condensed brown heads
The 2nd crop of seeds are clamp
[illegible] in water is now maturing
good bares & Spores — plants that
come from the Spores in July are now



maturing Spores – though quite
small – Loads turned up by the
plow before the rains set in last of
June – have sometimes Dozens of seedling
plants on them all with Spores and
apparently mature 2 weeks ago
when out of the water which is gener-
ally the case now. – for we have
been having near 4 weeks dry weather
the leaves are not readily killed by frost
I sent Mr McCauley of Penn
Some who says it proves to be only
L. palustris – but does he know?
There is no rigidity nor fragility
about the leaves – neither are they
always in the water – I have –
no Specimens of L. australis
nor none authentic of Engelmanni
undoubted

Yours truly

Jones

B. Shaw

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Rec'd Dec 7
Ans Dec 13

Athens Ill. Dec 5th 1861

Dr Engelmann

Yours of Nov 18th

Enclosing 2 sedges — well - I cant see —
your Germanica & echinosphora & Nigra
& echinosphora look to me too much alike
and still less a lake than your Germanica
& laccustris & & echinosphora. and all
three of them might so for as I can see go with
the Species that Mr Durand sends. also
Mr Canby from the Delaware River. below
low & high water mark. and called G. riparia
and also with a long leaved Specimen I have
from Delaware that Mr Canby calls. G. Engelmanii
G. melanopoda is the only Species I have that
seems different enough for Specific distinction
but your 2 & most all I have are too immature
& Spoiled by pressing too hard
I send you to day by mail a package
Containing numerous Specimens of our pet. in
many of its Stages of development & forms
On the top Sheets I put in young Specimens
and good mature Specimens — which if you
like you Can send your friend Braucher as



a wet sheet application for his
Isoetes fever. Showing some at least of the
usual characters used for specific distinction
are worthless. form of bases depends entirely on
circumstances of situation of bulb. if it is at
or near the surface they often are twice as wide as
long. but if situated deeply in the hard clay
they often become twice as long as broad. nor
is the length of leaves of any account or breadth
either both depending on condition of season
depth of water & richness of soil. the Prairie
ponds producing in every way longer plants
The material I send you will enable you to
work up an account of the development of
these interesting plants - I have no microscope
And if these interesting facts have not already been
given to the world I wish you would take
it in hand and by figures & discription show us
the process. perhaps I can aid you a little
by my naked eye observations
Vegetation of the spore commences by its enlarge
ment soon showing a two lobed organization -
in the process roots issue from its lower
parts & sides of each lobe: the spore splits

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above & the leaves come out - the growth
there is by a continual enlargement & the
formation of new leaves & roots - the spore is
tion Even divided & the inside development of
the young Corm
~~a new Corm~~ Corm which displaces it
t and pushes it out ward on opposite sides
s of its base where it decays - This new
Corm appears to be only for the support of the
present individual generation and preserveing
this plants existence from one season to the next
for when new growth commences from this
Corm it soon divides at its base in the middle
and the new inside development pushes
it out ward & upward on opposite sides of
the bulb when it decays away At each gener
ation of the plant - the plant is really an
an annual every part dies roots as well
as top annually. all but the simple Corm. whi
ch in this respect is more in character with
a seed than root, analogous to & probably
more nearly related to the Corm growing mon-
o Cotyledonous Phenogams (Aristolochia. Sympho
-carpus &c) than Cryptogams. Isoetes is
~~Monoecious~~ also. - See if this relationship does
not exist -. Most of the Specimens I send.

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are from Spores Series 18th July - You want to know how I know that of course I know it from three circumstances - where the Plow was running during that exceedingly dry Spell of weather in June — every green thing of course was entirely killed - and on clods of earth turned up at that time by the Plow half the size of your hand there may be 20 Specimens frequently crowded very close together - take this clod say 3 inches deep and commence forcing with a knife horizontally at the bottom you find nothing at first — you soon reach the lower extremities of the roots at last from 1/3 to 1 Inch from the surface of the clod you find all the bulbs arranged horizontally. Showing that the Spores only that happened to be at the same depth from the surface vegetated - there is no doubt with this proof of it. it is a fixed fact - the young Specimens sent from Spores I send you come up much later recently in the bottom of the furrows where whilst the water was standing in them could not vegetate - having come up since the rains ceased & the water dried up the older Spore bearing Specimens are on the ridges made by the Plow - I. melanopoda has a good name - the bases are generally black when mature. the Pale colored exceptions are merely constitutional variations — I have no bulbs left for Braun the Plants were not mature - See slip



Iroetes melanopa

E. Hall.
Dec 1865

Showing natural
position & direction
of roots in the Soil

This drawing was originally
clipped (under a note by
E. Denison) to the Elihu Hall letter

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Rec'd March 13th
Ans same day

Athens Ill. March 12/1866

Dr Engelmann

Dear Sir

Last Fall I sent you
by mail a large parcel of
Isoetes melanopoda be-
ing having heard from you since
and as it is now about time I
should send you those roots
you have been asking for — I
write to know if you are
still living & wanting them &
to write me the names again
as I have probably forgotten many
of them

respectfully

E. Hall

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Apt 2C
Audubon

Athens Ill. March 28 1866

Dr Engelmann

Yours of 13th rec'd

Weather permitting to morrow I
Shall go to Springfield &
Send you by Express a box of
perennials 500 or 600 species mostly
from West of the Missouri - I
hope your friend Shaw will be
pleased with them - what you don't
want - I send you half I have of
Allegan Cernuum. You will find
it very distinct from Stellatum
You won't be converted to my Proctor
theory - well can't help it - but
it is true - the corms might be
easily enough destroyed after growth
has commenced by plowing them
up or under - they only last one
year - but are renewed annually - as
I before stated the modus operandi per-

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I can help you a little
with your Genus — not much
I will get for you Juncus
tenuis in 2 or 3 forms J. aequilongus
(so called by you) & J. brachycarpus
provisionally so named by you — the
green headed Sp. — to the extent I
in the States you want
but one other Sp grows here J
J capitatus or paradoxus — you have left me
in doubt which it is. but it is so
large that to get out by the
roots & dry 120 Specimens would
be an immense Job — more than I
will have time to do this Jear
You will necessarily be several
Jears with the work — to get all
the Species from Western America
to the extent you want — will hardly
be possible at all I should
Thanks
The J. Jointsonii ought to be J Canadensis
is from Jefferson Co. CV. J. J magnificus

Grows in Mason Co Ill but
not nearer as I have found
& what you may think is strange
is that G. Buffonius does not
grow at all in all this region

This Allocasia Cornucopiae I send
you is from the Poly Mss
Grows here in common ja dem
Some — very large

Respectfully
E. Hall

P S. The tubers of my Nymphae
have rotted & my Caltalische Aurtio
is dead entirely. by the winter
& many other things that I valued
much — every thing from California
grasses & all entries destroyed,

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Rec'd June 2d
Ans June 5

Athens Ill June 1st 1866

Dear Engelmann

Your letter & the proceedings of your Society are both rec'd Many thanks I have been out this morning and got the Enclosed for you & send to day by mail I find no young plts - (i e) plts from the Spores this Spring probably the Spores only germinate at a higher temperature than this Spring months afford no time now to talk about it I will only say that my last Seasons observations I still adhere to the plants I sent you have indeed behaved Strangely I Cant account for it - I am sorry - perhaps was killed with too much water

Had sent Stenorus here are
all hardy & now in fine
flower of those you sent
me last fall Allium Stellatum
and felt will bloom soon
& I have fast & sure - Aster anom-
alus & Solidago Drummondi
but the others are gone. to
my Great delight however I
find Callirhoe Involucrata
coming up finely from the seed
I plant all the seeds I can get
& shall be glad of some from
Arizona & will do the best
I can for them & divid results
with you if successful - though
now too late to be hopeful
I was geting 600 Species from
the Botanical Garden at
Bordeaux - but I am sadly
disappointed only having
heard of their shipment

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several months ago — & now
too late
I have not yet had time to
study your article on Juncus
only glanced at the new Sp
where is Dr Vasey now,
Pringwood or Richview
I will get for you Juncus
the Species I before mentioned
which is I believe what you
now call J Canadensis. J
Tenuis. & the green headed
Species — J. fraternus - thou
by reason of the dry May the
latter will be be low average in
all its characters
I can do this year —
Ever yours E. Hall

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Rec. July 25th
Ans. Aug 28 14

Athens 2d. July 23 1866

Dear Engelmann

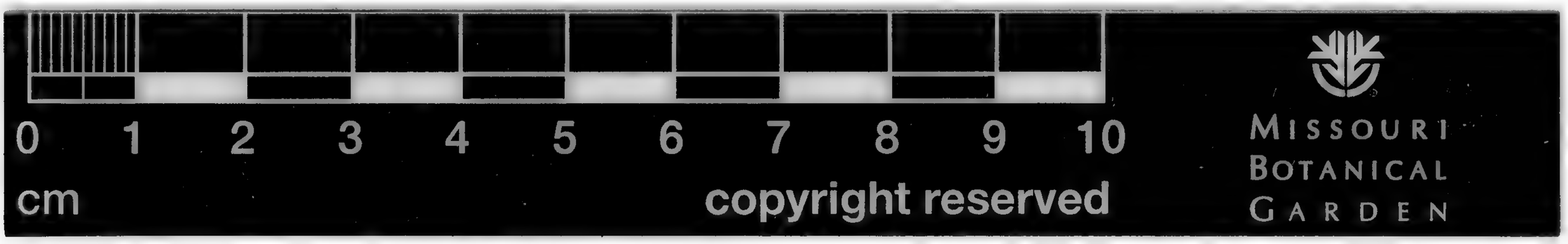
Yours of 13th is at hand
The Closed globose Corolla is a good
character of the Sp. - although more or
less expanding in bright weather
at maturity of Stamens ! but never
spreading wide as in. Stellatum
the Stamens in healthy Specimens are
about altogether equally protruding - This
year the plant appears Sickly
I fear I shall loose it. The Sp
is certainly a very good one &
quite distinct from Stellatum
which I also have growing - the
latter you know has erect heads
Coronarium is variably nodding
That Genus Brachycarpus I have
only about enough to make
60 Specimens & and I under-
stood you to want. Of I. Canadense

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About the Same and of-
ten is hardly any neglected it
too long - besides on account of
the dry weather the Grasses
have been abnormally developed
this year I have suspend the
loss of their leaves in part before.
maturity — as you are not to
Complete your Sets this year I could
probably do better next year with
all the Species here. if this will do
let me know in due time
- what a long knotted running root
Stock J. rodosus var megacephalus
has — I would be a good days work
to get out & press 60 Specimens
of that

Yes I have got your Grasses
paper in the Transactions as I wrote
you before I believe with thanks
I shall be glad of the other when
ready. Ipoeter melanopoda is
All. dead entirely the Summer

here thus far though Seasonable
on the whol has been dry & the
numerous Insects Ponds have long
Since dried up & many of them
planted in Corn — all dead
two before the young plants —
(not of this years germination)
matured their Spores.. probably
Some of the older ones have done
better in this respect — the Ponds
are getting well watered now by
Copious rains & if they Continue
I Shall Soon expect to See plants
from the Spores. And also from the
bulbs again. I will be looking
I enclose Jim a bit of Euphrasia
from California Seed — that
might as well as not be E.
Dictyosperma or E. obtusata as to
General appearance; but the Seed Shows
it to be neither — Some of which I enclose
what name? — Some time at Leisure
Ever Yours E. Hall



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Rec'd Sept 18
Ans Oct 4

1

Athens Lee. Sept 15th 1866

Dear Engelman —

Your last has been some time in my Hands Sorry you could not find it Convenient to Come out when at Springfield to See me — I Should have enjoyed your Company well and had much pleasure in showing you what little I have in the Insecta Kondo — if Opportunity should offer again Please avail your Self of it — Shall be glad to open our Correspondence as long as you like — I have just been looking at the Insects again. the top have So entirely disappeared / dead & washed or rotted away by the rain that it is now very difficult to find I enclose you a few Small bulbs from last years Space! Some of them just Starting to their Second or fall growth — this Growth I believe to be casual with the plant

not like the Second growth of last
Year that Commenced from Spores & bulbs
in early July — This Year So far I have
unable to find a Single plant from Spores
The Season upon the whole has been moist
& the Localities never to be called dry — Yet
Since the hot weather of Summer killed
or matured the first or Spring growth
the bulbs have Shown no Signs of growing again
until now a few of them are Starting. Which
as I before Said is not unusual in moist
Autumns. This growth will Survive
the winter at least in part & be
Completed next Season. The Same
in this respect as the earlier maturing
Perennials of other plants. The proper
time to get the bulbs for transplanting
or Shipping is in end of June or July
when they can be found by their tops &
are then dormant. The enclosed sheet
probably you dry will Show you
well their Botanical Characters
I promise to attend better to the

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Francis next Season if
life is Spared — in the meantime any Suggestions for them will
be — attended to in Season
That Euphorbia must be something
else — the Smoothe Seeds of dijctyosperma
distinguish it from. their — besides there
are Some differences in habit & time of —
maturing — I grow both of them
I Shall Journal now Comparatively
Love from Sebilia
I am pleased with the way Jim
Pleased the President and party
The Radical Sentiments he received
at the hands of the radicals at Springfield
is by no means the Sentiments of honest
masses in Illinois
We are having a protracted Spell of
miserable wet rainy weather —
much to the obstruction of business
in every way & the wheeling of the Corn
Ever Yours Engleard

Thanks for the Sida Fasciculata
new to me
And that malvaceae Engelmanni
is entirely unknown to me — every de-
scription — I no doubt or megacephalus
is I think hardly propagated by the tubers
of the root Stocks that is the growing
points of the sleeping - roots. but the
knotted Stocks are not always with eyes
I believe. but I must look further
& will try to see them this fall
when work is off hand
Does Dr Parry talk of going west
again? I have not looked
for enough in to Gractas to say certainly

how the old corms are disposed of whether
by exfoliation, as the bark of trees or if the
are used in the reproduction of new corms
as in true corm growing plants
quite probable the former

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Rec'd Oct 16
Ans Oct 30

Athens Ill Oct 14th 1866

Dr Engelman

Your ree Card meek
I send you by mail to day
a little parcel of Insects just
dug out Some of them are from
Spores but most of them are
Pupalings I Suppose they will
all be dead enough before they
reach Europe — in their present
growing State
The wet fall has Started them
as I Suppose it usual under Similar
Circumstances they survive the
winter in their present growing
State & mature next Spring
I discovered this Species in 1853 — but
in a very unbotanical way
was making brick with a party
where the Clay was taken from a
place of its growth & there first found

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the bases with their matured Spores
I had often looked for the plant
described as I. Engelmanni but had
not before made it out I at once
referd it to that Species and as that
plant had always sent it out —
I can not say how it got in to
the hands of Say & Seaward —
except through me — I have sent
it out years ago
I dont know when Dr Vasey
discovered the plant at Edenton
Iowa nor do I exactly know
that locality I have the plant
from here from Ringwood Ill
collected in 1863
Allium Stellatum that you sent
me bloomed here in July but
matured no seed it Certainly
behaves queerly to be blooming at
Spt with you were the leaves still
green at that date?

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Yes we had frost on the 21st ult
& the next two killed Corn blades
in localities — little damage otherwise
Nothing can be nicer now than the
weather for the last Eighteen days
with out any rain
Yes we will outvote the radicals
if we can but they seem to be
So much inclined to their old
notions of negro equality out east
that we can not be too sanguine yet
a practical application of their
doctrine will I fear be all that
will Cure them — A cranseous
remedy truly but the disease is a bad
one

Am very busy now - am looking
forward with much impatience to a
leisure time in the winter to Study
& enjoy my much loved Science
Ever yours

P. Hall

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Rec. Nov 6
Ans Dec 8

Send by
Express
today
from
Springfield
Ill
Bundle

Athens Ill Nov 1st 1898

Dear Engelmann

Here are the ferns — Could
have sent them before only
I understood I was to retain
them fronds after another year's
Collecting — to complete the
numbers — I want only for my
Herbarium a Set when completed
The Ivoter question is getting
important. Indeed how shall
we all get A Specimens of Their
American Species? Wont you
Collect them for us. as you are
the Fern. Get them plentiful
So as to give us enough to Share
Some for tearing up for our own
investigation. — The principle
differences is only to be found with
the Spores

Ever Yours E Hall

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PS I put 27 Species
of California pts named
from Rocauden Seed
this Year Can You
name them & send me the
names with the numbers?

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Rec - Jan 2d - 1867
Ans July 14

Athens Ill. Dec 30th 1866

Dr Engelman

Yours of 26th rec'd & duly rec'd. Thanks for the names so far as they go of the California plts. - I ought to have sent their seeds with others that I had collected for Shultes - with the plants I sent him through Dr Gray for his Cichoraceae Sets full Sets of 60 Specimens of the 2 Microrhynchus and the larger Calaeis in packs of the smaller from which he can no doubt get mature seed) besides other Cichoraceae comprising I also sent him last year - I am to have a Set of Cichoraceae in payment - I could send you some of several species of seed for them if you will be sending them. - how do you send from St Louis your parcels to Europe? if as cheaply and conveniently as from the Sea board, otherwise I had better send them to Boston but now it is too late for Dr Gray has already sent them the Sets & will not

probably be sending them again
I will get you the 20th Genera
next Year and in better State I hope
if the Season is favorable
I Can't now tell you the exact date
of Collecting the Specimens I sent
you. Some time in the beginning of July
in part & later for a portion of them
of fraternus & brachycarpus. the
Soil is a white Semi quartz Sand Clay
Such as abounds in this region in
the vicinity of Prairies. the Characteristic
tree is Carya alba. the vicinity of these
Genera & Isoetes ponds are known here
as hickory flats. the Soil for cultivation
is nearly worthless — the most Characteristic
plants growing with the 2 Genera above
mentioned are Eleocharis obtusata & tenuis
Gratiola virginica Glyceria
Ceratophyllum muricatum. Aster dumosus
Cephalanthus occidentalis. Cuscuta tenuiflora
Carex vulpinoidea. the Ponds more properly
so called afford Isoetes melanopoda Ludwigia

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Polygonum. Gratiola Aphanocarpa - Ammania humilis & latifolia - Callitriche Am Sapii Ranunculus Purshii - Potamogeton heterophyllus & the (inevitable) button bush. Before named besides others equally Species too numerous to mention. I believe no Species matured here this year at any Season. the early dry Summer destryed the first crop & the Subsequent ones did not come to perfection as last year. in fact the Season Seemed every way wrong for them - their localities Seeming to have been overgrown with grass & weeds which was perhaps the cause of failure

I Shall be glad to get the Specimens you have for me

Yours truly

E. Hall

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Isoetes Melanopoda E Hall

July 8 1878

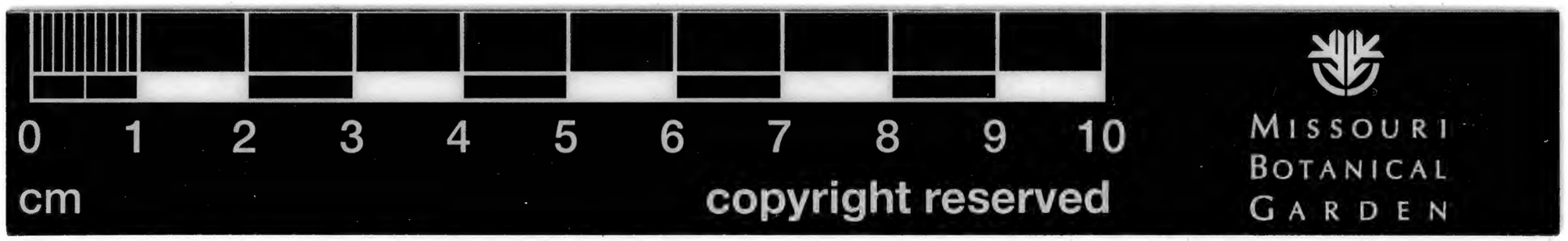
male 1st locality 41 } 75
2° loc 9 } 75
fem 1 ½ Jan 20 25 } 192
1 ½ Coral. 75 } 117
2° Jan 20 34 } 117
2° Coral 8 }

Monocarp

nearly male 1st 19 } 36 } 69
Jan 20 2 17 } 36 } 69
2 2 }

female with 1st 5 } 33
Overlapd Jan 20 23 } 33
bul ~~Mostly~~ abnorml - 3 } 33
abnorl. less 2 2 } 33
than male
except the 3 abnormal ones

261



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ST. LOUIS, MO.

Age, ... *years,* ..... *months,* ..... *days,*

(SINGLE.) (MARRIED.) (WIDOWER.) (WIDOW.) Cross out the words not required.

Cause of Death, ...

I CERTIFY that I attended the person above named, in ..... *last illness, who died of the disease stated, on the date above named.*

..... *M. D.*

(Address,) .....

Place of Burial, ...

..... *Undertaker.*

Office Health Department,

St. Louis, Mo., ... *187*

I CERTIFY that I have examined this Certificate, and find it to accord with the requirements of the Board of Health.

..... *M. D.*

Clerk Board of Health.

☞**Sextons receiving Burial Certificates without the signature of the Clerk of the Board of Health, will subject themselves to a fine of Two Hundred and Fifty Dollars.**

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